U.S. Department of Commerce Patent and Trademark Office **PATENT**

UTILITY PATENT APPLICATION TRANSMITTAL

Commissioner for Patents Washington, D.C. 20231 **BOX PATENT APPLICATION**

Attorney Docket No.: 010015 Date: December 7, 2001

Express Mail Label No.: EJ 831391949US

Bar Code Customer No.: 023696

Label:



Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s):

7. Other:

Nagabhushana T. Sindhushayana, Serguei A. Glazko, Peter J. Black

For:

FREQUENCY SEARCHER AND FREQUENCY-LOCKED DATA DEMODULATOR USING A

PROGRAMMABLE ROTATOR

Enclosed are:	
1. Patent application (16) total pages.	
2. Drawings: Formal () sheet(s) or Informal (4) sheet(s).
3. ☐ Declaration/Power of Attorney: ☐ Signed ☑ Ur	
4. An Assignment () pages and Recordation Form Cove	
5. A Preliminary Amendment () pages.	
6. Information Disclosure Statement (IDS):	
a. PTO-1449	
b. Copies of IDS Citations (number of citations:)

CLAIMS:	(a) Filed	(b) Extra Claims	Large Entity Fee	Fee Paid
Total*	24 - 20	4	x \$18 =	\$72
Independent**	5 - 3	2	x \$84 =	\$168
Multiple Dependent Claim(s): No Yes			\$270	\$0
APPLICATION FILING FEE			\$740	\$740
*If the number in column a is less than 20, enter 0 in column b. **If the number in column b is less then 3, enter 0 in column b.			TOTAL FEE	\$980

8. A check in the amount of \$____ is enclosed to pay the filing fee.

9. Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$980. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.

10. The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: December 7, 2001

Signature: George C. Pappas, Reg. No. 35,065

(858) 651-1306

QUALCOMM Incorporated Attn: Patent Department 5775 Morehouse Drive

San Diego, California 92121-1714 Telephone: (858) 651-1179

Facsimile:

(858) 658-2502

PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Sindhushayana, ET AL. For: Frequency searcher and frequency-

Darla D. Lallo

LOCKED DATA DEMODULATOR USING A

PROGRAMMABLE ROTATOR

Serial No.:

UNKNOWN

Group Art Unit: UNKNOWN

Filed:

HEREWITH

CERTIFICATE OF MAILING UNDER 37 CFR § 1.10

Commissioner of Patents **BOX PATENT APPLICATION** Washington, D.C. 20231

Dear Sir:

"Express Mail" mailing label No. EJ 831391949US Date of Deposit December 7, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated above and is addressed to the Commissioner of Patents, Box Patent Application, Washington, D.C. 20231. Enclosed herewith are the following documents: TRANSMITTAL LETTER; CERTIFICATE OF MAILING UNDER 37CFR § 1.10; PATENT APPLICATION IN 16 PAGES, INFORMAL DRAWINGS IN 4 pgs. and POSTCARD.

(Signature) QUALCOMM Incorporated

5775 Morehouse Drive San Diego, California 92121-1714

Telephone: (858) 651-6399 Facsimile:

(858) 658-2502